	DAMANHOUR UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL TWO GEOLOGY- GEOPHYSICS STUDENTS			
	COURSE TITLE:	OPTICAL MINERALOGY (تخلفات)		COURSE CODE: G 201
DATE:	26 DEC., 2015	TERM: FIRST	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 2 HOURS

Answer the following questions, illustrating with drawing if it possible:-

1. What are the different methods to obtain the polarized light. (10 marks)

2. Draw cross section showing the components of polarized light microscope. (15 marks)

3. Write on the proper use of the microscope. (15 marks)

4. Define the following terms:- (20 marks)
   a. Isotropic and anisotropic minerals.
   b. Orthoscopic and conoscopic observation.
   c. Colour of the minerals.
   d. Relief of the minerals

EXAMINER	PROF. BOTHINA T. ELDOSUKY	

☺Good Luck☺

قسم الجيولوجيا
المادة: جيولوجيا عامة - ساعات حرة G ١٠١
الممتحن: د. ماجد الأوسطى

العام الجامعى: ٢٠١٥ / ٢٠١٦

الفصل الدراسى: الأول
الزمن: ساعتان

أجب على عشرة (١٠) أسئلة فقط من الأسئلة التالية موضحا اجابتك بالرسم كلما أمكن ذلك:-

١. عدم التوافق التباينى.

٢. البركان وأجزائة.

٣. تقسيم الصخور النارية على حسب تركيبها الكيميائى.

٤. تقسيم الزلازل على حسب العمق.

٥. مقياس موهس للصلادة.

٦. التجوية الكيميائية وعواملها.

٧. تعريف علم البلورات وما هى انواع البلورات على حسب استكمال الاوجة البلورية.

٨. فروض نظرية الانجراف القارى.

٩. الطية وانواعها.

١٠. العوامل التى تساعد الرياح فى بريها للصخور.

١١. قانون ثبات الزوايا بين الوجهية.

١٢. النطاقات الداخلية للأرض (باختصار).

مع تمنياتنا بالتوفيق والنجاح.....،

	DAMANHOUR UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL FOUR GEOLOGY-CHEMISTRY STUDENTS			
	COURSE TITLE:	MINING AND ENGINEERING GEOLOGY		COURSE CODE: G 409
DATE:	14 JAN., 2016	TERM: FIRST	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 2 HOURS

I- Mining Geology (1 Hour – 30 Marks)

1. Define the following terms illustrating with drawing:- (10 marks)

a- Adit

b- Raise

c- Shaft

d- Apex

2. Write on the following:- (20 marks)

a- Different stages of extracted surfaces ores.

b- Ore reserves.

c- Types of supports.

d- Preliminary proving.

e- Advantages and disadvantages of surface mining methods.

II- Engineering Geology (1 Hour – 30 Marks)

Write <u>SHORT NOTES</u> on the following:-

1- Engineering characteristics of coarse-grained and fine-grained soils (inorganic clays).

2- Engineering properties of rocks.

3- Geological conditions and dam sites.

EXAMINERS	PROF. BOTHINA T. ELDOSUKY	DR. SAMIR Z. KAMH

☺Good Luck☺

	DAMANHOUR UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL THREE GEOLOGY- CHEMISTRY AND GEOLOGY-GEOPHYSICS STUDENTS			
	COURSE TITLE:	PLATE TECTONICS		COURSE CODE: G 307
DATE:	02 JAN., 2016	TERM: FIRST	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 2 HOURS

Write <u>SHORT NOTES</u> on the following, illustrating your answer with drawing when it possible.

1- The bathymetric features of the sea floor. (20 marks)

2- Supercontinents. (10 marks)

3- Active and passive graben structures. (10 marks)

4- The East African rift system and Afar depression. (10 marks)

5- **Compare** between mountains building through convergent plate margins and continental collisions. (10 marks)

EXAMINER	DR. SAMIR Z. KAMH	

☺Good Luck☺

	DAMANHOUR UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL THREE GEOLOGY- CHEMISTRY AND GEOLOGY-GEOPHYSICS STUDENTS			
	COURSE TITLE:	PLATE TECTONICS		COURSE CODE: G 307
DATE:	02 JAN., 2016	TERM: FIRST	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 2 HOURS

Write <u>SHORT NOTES</u> on the following, illustrating your answer with drawing when it possible.

1- The bathymetric features of the sea floor. (20 marks)

2- Supercontinents. (10 marks)

3- Active and passive graben structures. (10 marks)

4- The East African rift system and Afar depression. (10 marks)

5- **Compare** between mountains building through convergent plate margins and continental collisions. (10 marks)

EXAMINER	DR. SAMIR Z. KAMH	

☺Good Luck☺

Department: Geology
Section: Geology-Chemistry and Geology-Geophysics
Cource Code: G.301
Course Title: Sedimentology
Date:4 /1/2016
TimeAllowed: Two hours
Dr.Esam zahran

Answer the following questions: (60 marks)

Q1:Discus briefly on the following with drawing if possible.(40marks)

-Classification of Terrigenous sedimentary rocks according to their texture.

- Origin of Chert with mention main types of Chert.

- Classification of limestones based on the composition.

- Dolomitization process with mention the characteristics of dolomitization.

- Main types of Shales and How can differentiated between clay minerals by X ray.

-Type of Sabkhas with mention the source of Brine solution.

- Type of heavy minerals.

- Distinguishing between dolomite and calcite with mention the Limestone-dolomite classification.

Q2: Explain the concentration is an important factor in evaporites with mention the main evaporit minerals and economic important of evaporites. (10marks)

Q3: What is the mineralogy and main types of phosphate rocks. (10marks)

Good luck

	DAMANHOUR UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL THREE GEOLOGY-CHEMISTRY AND GEOLOGY- GEOPHYSICS STUDENTS			
	COURSE TITLE:	GEOCHEMISTRY		COURSE CODE: G 303
DATE:	18 JAN., 2016	TERM: FIRST	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 2 HOURS

1. Write on the following:- (25 marks)

a- Meteorites.
b- Application geochemistry for metamorphic rocks.
c- Crystallization of basic and intermediate magmas.
d- Shand (1951) geochemical classification of igneous rocks.
e- Different methods of geochemical analysis.

2. What are the difference between the following:- (25 marks)

a- Isochemical and allotriomorphic metamorphism.
b- Compatible and incompatible elements.
c- S-type and A-type granites.
d- Light rare earth elements (LREE) and heavy rare earth elements (HREE).
e- Chalcophile and lithophile elements.

3. Discuss the relation between the geochemistry of igneous rocks and their tectonic environments. (10 marks)

EXAMINER	PROF. BOTHINA T. ELDOSUKY	

☺Good Luck☺

Department	**Geology**	Term, Date	**Autumn 2015-2016, 11-1-2016**
Program	**Geology-Geophysics & Geology- Chemistry**	Time	**One hour**
Course	**Statistical Geology- G 322**	Degree	**70**
Lecturer	**Dr. Osman M. Badran**		

Answer the following questions:

A- Write on: Data, Information, Facts and Knowledge.

B- Complete the missing parts:

1- Population is.....

2- Categories of Statistical Tests are.....,.....and.....

3- Correlation is.....

4- Statistics is.....

5- Types of software for statistics are.....,.....,.....and.....

C- Write short notes on: Ways to Select a Sample.

D- Differentiate between: Mean, Median and Mode (examples and graphs).

E- Put true or false for the following statements:

1- Measurements can be qualitative or quantitative and measured using four different scales.

2- Graphs for numerical data are: Histograms, Frequency polygons and Pie.

3- Information can be classified as fact and data forms.

4- A parameter is a characteristic of a population.

5- *Example of Ratio scale properties is no true zero.*

F- Write on: Comparison of Probability and Statistics.

G- Discus the Descriptive and Inferential statistics.

Good luck

Department	**Geology**	Term, Date	**Autumn 2015-2016, 11-1-2016**
Program	**Geology-Geophysics & Geology- Chemistry**	Time	**One hour**
Course	**Statistical Geology- G 322**	Degree	**70**
Lecturer	**Dr. Osman M. Badran**		

Answer the following questions:

A- Write on: Data, Information, Facts and Knowledge.

B- Complete the missing parts:

1- Population is.....

2- Categories of Statistical Tests are.....,.....and.....

3- Correlation is.....

4- Statistics is.....

5- Types of software for statistics are.....,.....,.....and.....

C- Write short notes on: Ways to Select a Sample.

D- Differentiate between: Mean, Median and Mode (examples and graphs).

E- Put true or false for the following statements:

1- Measurements can be qualitative or quantitative and measured using four different scales.

2- Graphs for numerical data are: Histograms, Frequency polygons and Pie.

3- Information can be classified as fact and data forms.

4- A parameter is a characteristic of a population.

5- *Example of Ratio scale properties is no true zero.*

F- Write on: Comparison of Probability and Statistics.

G- Discus the Descriptive and Inferential statistics.

Good luck

Damanhour University
Faculty of Science
Geology Department

Introduction in the Geology of Egypt

Code Number : G 407 Time Allowed : 1

Fourth year (Chemistry-Geology) Date : 17/1/2016

Write briefly on the following: (60 Marks)

1-Paleozoic outcrops at Um Bogma area,southwestern Sinai,Egypt.

2-Jurassic distribution in Egypt.

3-Economic aspect of the Paleozoic and Mesozoic Eras.

GOOD LUCK